



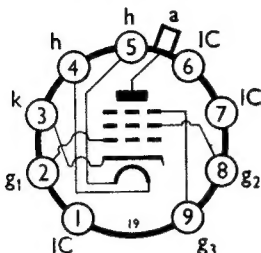
# POWER PENTODE

## 0·3A INDIRECTLY HEATED

**N339**  
NOVEMBER, 1955

For use as a line time base output valve in D.C./A.C. television receivers.

### BASE CONNECTIONS AND VALVE DIMENSIONS



View from underside  
of base.

Base : B9A  
Bulb : Tubular

Overall length : 76—82 mm.  
Seated length : 70—75 mm.  
Max. diameter : 22 mm.  
Top cap : CT1

### HEATER

$I_h$	0·3	A
$V_h$	20 approx.	V

### MAXIMUM RATINGS

$V_{h-k}$ rms	230	V
---------------	-----	---

#### Pentode Connection

$V_a$	300	V
$v_a$ (pk) (pulse) *	7·5	kV
$V_{g2}$	200	V
$p_a$	12	W
$p_{g2}†$	4·5	W

#### Triode Connection

$V_a, g_2$	200	V
$p_a, g_2$	12·5	W

\* Maximum pulse duration : 18% of one cycle, with a maximum of 18  $\mu$ s.

† Subject to  $p_a + p_{g2}$  not exceeding 12·5W.

### CAPACITANCES (of unscreened valve).

$C_{a-all \text{ less } g1}$	7·3	pF
$C_{g1-all \text{ less } a}$	13	pF
$C_{a-g1}$	0·38	pF

### TYPICAL OPERATION

#### Pentode Connection

$V_a$	150	V
$V_{g2}$	150	V
$I_a$	50	mA
$r_a$	30	k $\Omega$
$g_m$	8·5	mA/V

#### Triode Connection

$V_a, g_2$	150	V
$V_{g1}$	— 12·5	V
$\mu$	8·5	
$r_a$	810	$\Omega$
$g_m$	10·5	mA/V

### SCREENING

No internal or external screening is fitted to the valve.

### MOUNTING

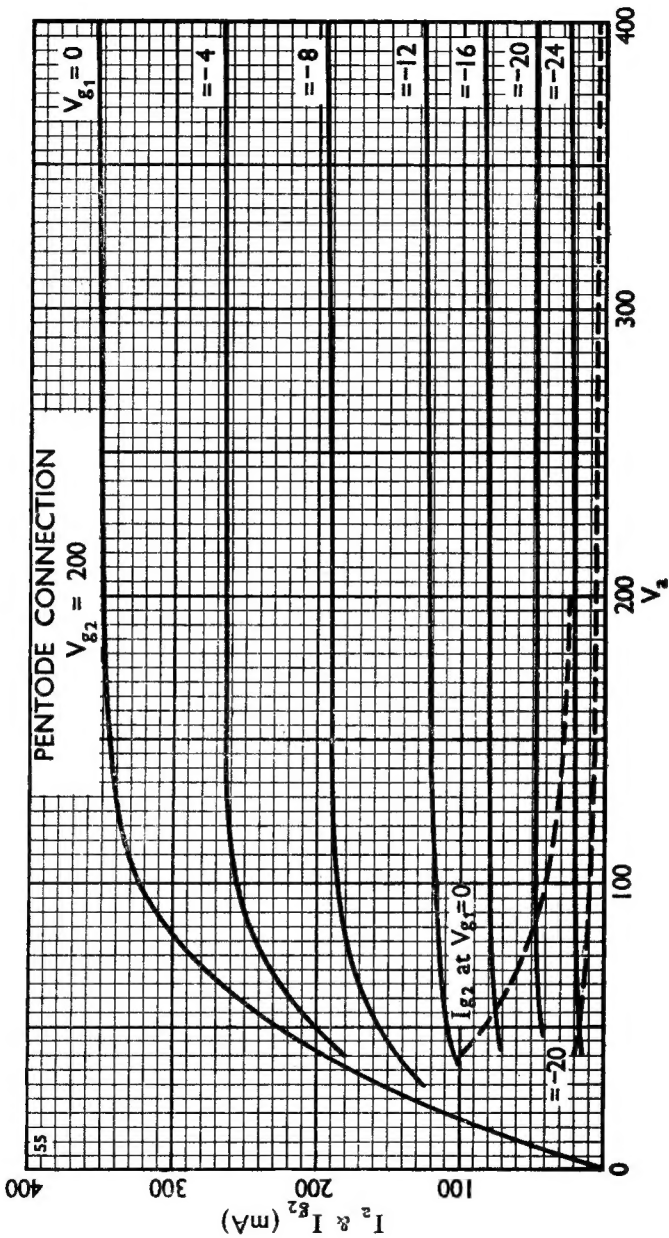
Any position, provided pins 1 and 6 are in a vertical plane when the valve is horizontal.

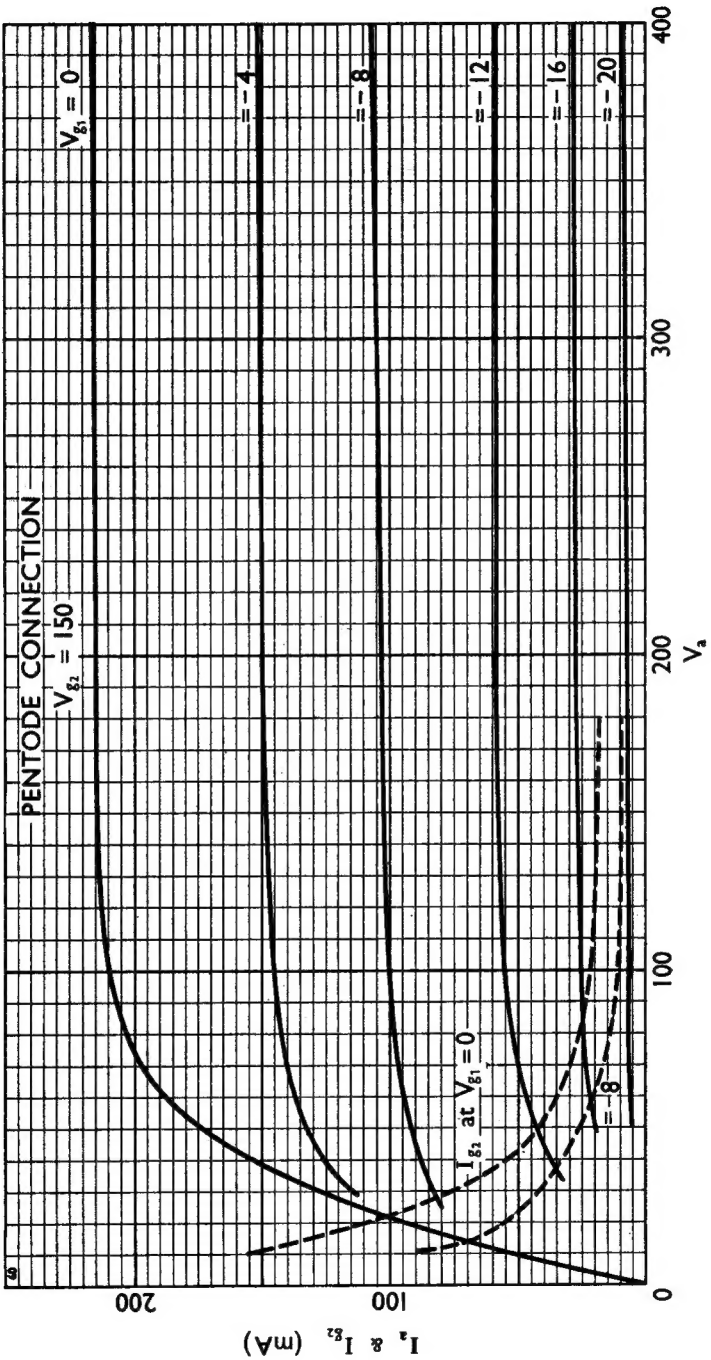
### RETAINING

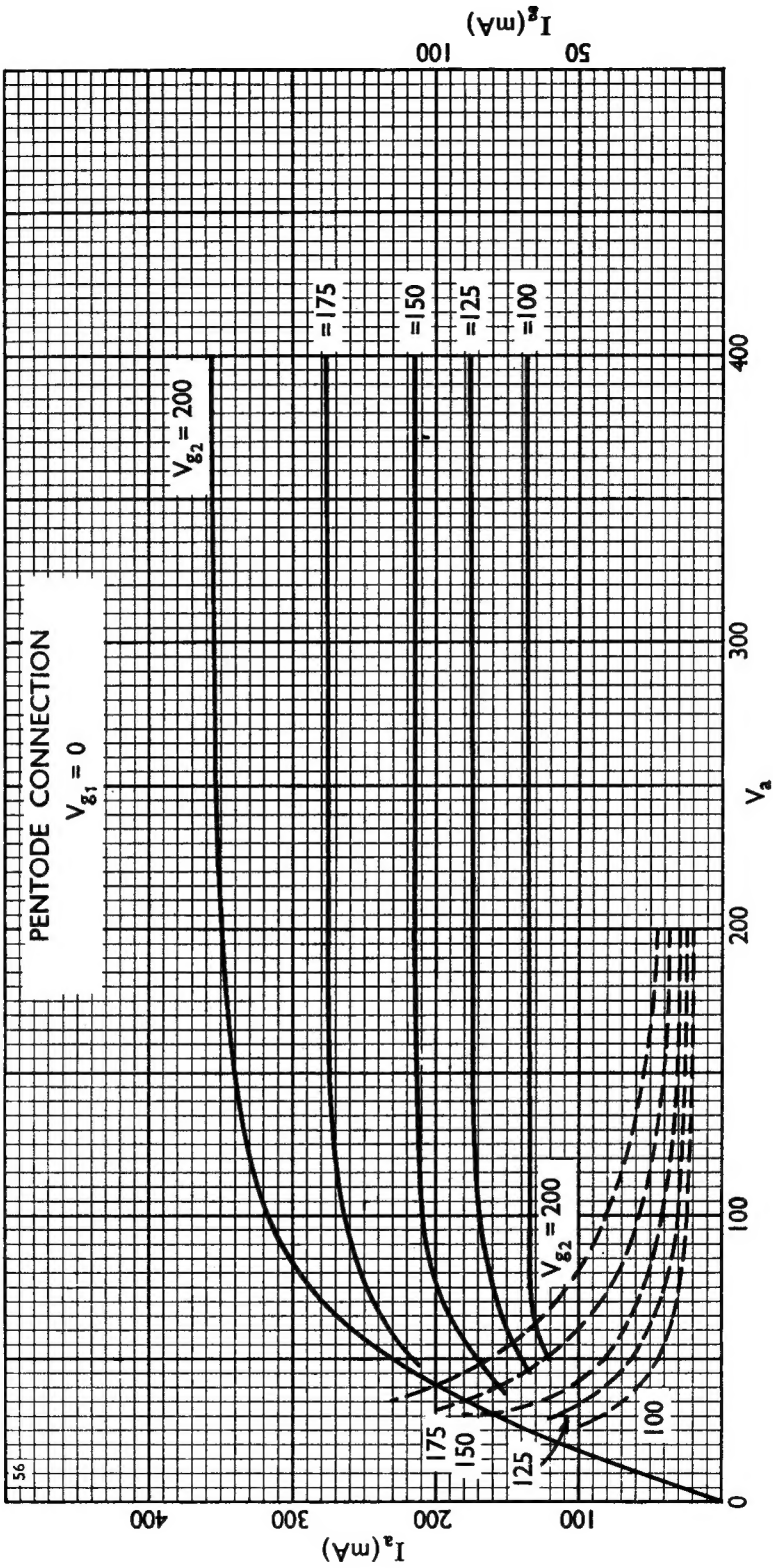
A retaining device should be used in equipment subject to vibration or shock.

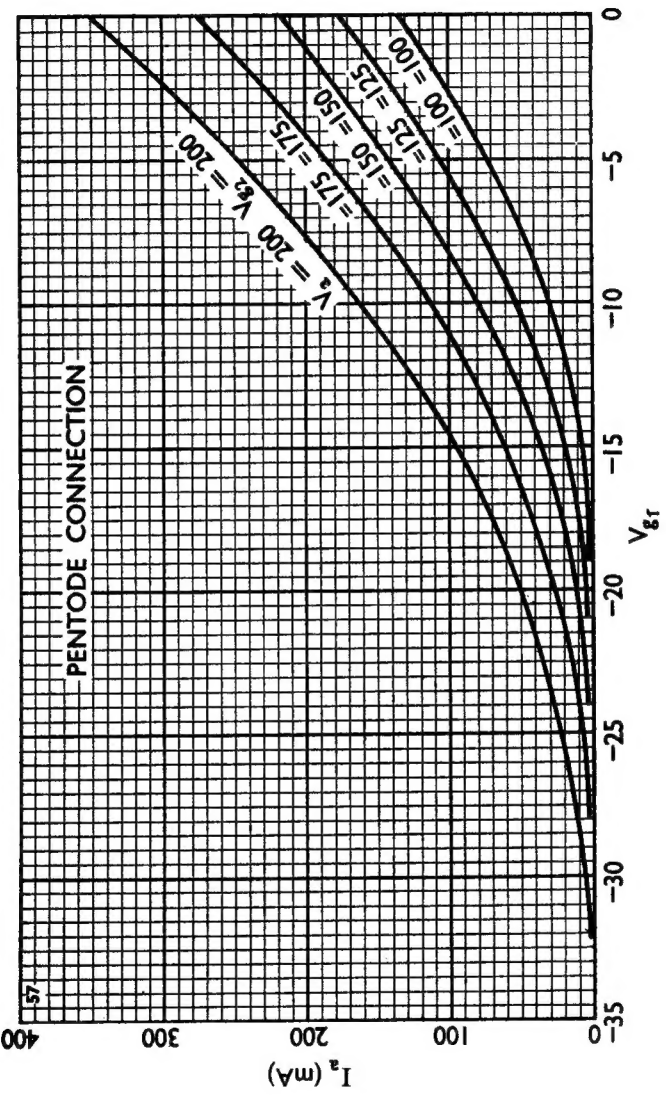
### VENTILATION

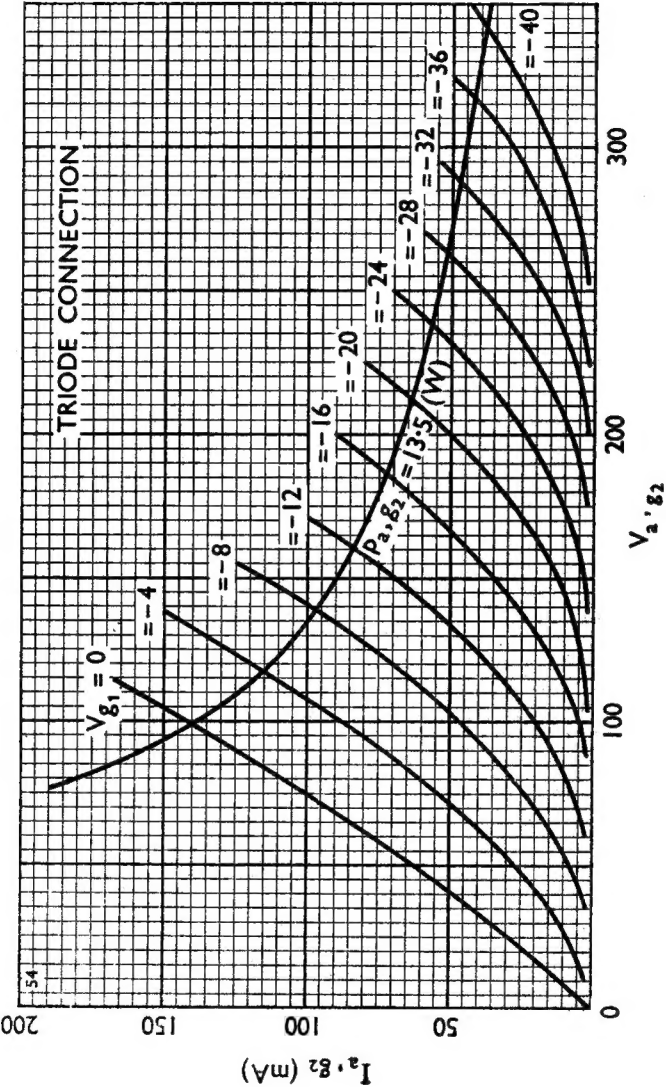
Free air circulation is preferable. The temperature of the hottest part of the bulb must not exceed 200°C.

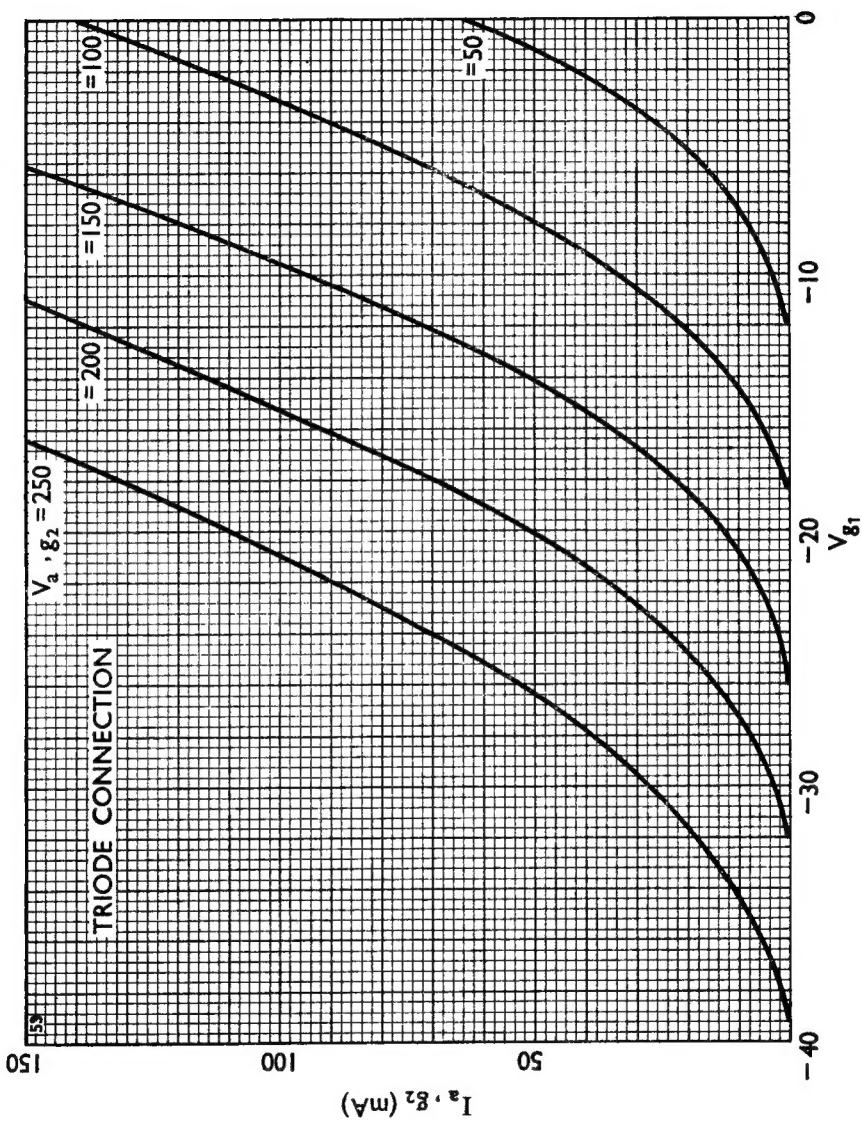












**N339**